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1 Special issue on independent components analysis: A multiscale framework for blind separation of linearly mixed signals

Pavel Kisilev, Michael Zibulevsky, Yehoshua Y. Zeevi

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(781.15 KB) Additional Information: full citation, abstract, index terms

We consider the problem of blind separation of unknown source signals or images from a given set of their linear mixtures. It was discovered recently that exploiting the sparsity of sources and their mixtures, once they are projected onto a proper space of sparse representation, improves the quality of separation. In this study we take advantage of the properties of multiscale transforms, such as wavelet packets, to decompose signals into sets of local features with various degrees of sparsity. ...

2 Special issue on independent components analysis: A maximum likelihood approach to single-channel source separation

Gil-Jin Jang, Te-Won Lee

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, index terms

This paper presents a new technique for achieving blind signal separation when given only a single channel recording. The main concept is based on exploiting *a priori* sets of time-domain basis functions learned by independent component analysis (ICA) to the separation of mixed source signals observed in a single channel. The inherent time structure of sound sources is reflected in the ICA basis functions, which encode the sources in a statistically efficient manner. We derive a le ...

3 Special issue on independent components analysis: Blind separation of post-nonlinear mixtures using linearizing transformations and temporal decorrelation

Andreas Ziehe, Motoaki Kawanabe, Stefan Harmeling, Klaus-Robert Müller

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(3.39 MB) Additional Information: full citation, abstract, index terms

We propose two methods that reduce the post-nonlinear blind source separation problem (PNL-BSS) to a linear BSS problem. The first method is based on the concept of *maximal correlation*: we apply the alternating conditional expectation (ACE) algorithm---a powerful technique from non-parametric statistics---to approximately invert the componentwise non-linear functions.The second method is a Gaussianizing transformation, which is motivated

by the fact that linearly mixed signals bef ...

4 ECO algorithms for removing overlaps between power rails and signal wires
Hua Xiang, Kai-Yuan Chao, D. F. Wong
November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**
Full text available: pdf(182.25 KB) Additional Information: full citation, abstract, references, citings, index terms

Design ECO commonly happens in industry due to constraints or target changes from manufacturing, marketing, reliability, or performance. At each step, designers usually want to modify the existing solution incrementally and keep the design as close as possible to the existing one. In this paper, we address the PSO (Power rail - Signal wire Overlap) problem which solves overlaps between power rails and signal wires due to the changes in power rail design on the top layer of a multiple layer routi ...

5 A Fast Algorithm for Joint Diagonalization with Non-orthogonal Transformations and its Application to Blind Source Separation
Andreas Ziehe, Pavel Laskov, Guido Nolte, Klaus-Robert Müller
August 2004 **The Journal of Machine Learning Research**, Volume 5
Full text available: pdf(287.32 KB) Additional Information: full citation, abstract

A new efficient algorithm is presented for joint diagonalization of several matrices. The algorithm is based on the Frobenius-norm formulation of the joint diagonalization problem, and addresses diagonalization with a general, non-orthogonal transformation. The iterative scheme of the algorithm is based on a multiplicative update which ensures the invertibility of the diagonalizer. The algorithm's efficiency stems from the special approximation of the cost function resulting in a sparse, block-d ...

6 Stepwise refinement of behavioral VHDL specifications by separation of synchronization and functionality
C. Schneider, W. Ecker
September 1996 **Proceedings of the conference on European design automation**
Full text available: pdf(66.73 KB) Additional Information: full citation, references, citings, index terms

7 Special issue on independent components analysis: Blind source separation via generalized eigenvalue decomposition
Lucas Parra, Paul Sajda
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: pdf(552.13 KB) Additional Information: full citation, abstract, index terms

In this short note we highlight the fact that linear blind source separation can be formulated as a generalized eigenvalue decomposition under the assumptions of non-Gaussian, non-stationary, or non-white independent sources. The solution for the unmixing matrix is given by the generalized eigenvectors that simultaneously diagonalize the covariance matrix of the observations and an additional symmetric matrix whose form depends upon the particular assumptions. The method critically determines th ...

8 Transforming cabbage into turnip: polynomial algorithm for sorting signed permutations by reversals
Sridhar Hannenhalli, Pavel A. Pevzner
January 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 1
Additional Information: full citation, abstract, references, citings, index

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Genomes frequently evolve by reversals &rgr;(i,j) that transform a gene order &pgr;1 ... &pgr;i&pgr;i+1 ... &pgr;j-1&pgr;j ... &pgr;n into &pgr;1 ... &pgr;i&pgr;j
Keywords: computational biology, genetics

9 Transforming cabbage into turnip: polynomial algorithm for sorting signed permutations by reversals
Sridhar Hannenhalli, Pavel Pevzner
May 1995 **Proceedings of the twenty-seventh annual ACM symposium on Theory of computing**
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

10 Using separation algorithms in fixed dimension
Carolyn Habit Norton, Serge A. Plotkin, Éva Tardos
January 1990 **Proceedings of the first annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

11 Separating key management from file system security
David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5
Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, citings, index terms

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use.We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

12 Special issue on independent components analysis: A generative model for separating illumination and reflectance from images
Inna Stainvas, David Lowe
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: pdf(764.42 KB) Additional Information: full citation, abstract, index terms

It is well known that even slight changes in nonuniform illumination lead to a large image variability and are crucial for many visual tasks. This paper presents a new ICA related probabilistic model where the number of sources exceeds the number of sensors to perform an image segmentation and illumination removal, simultaneously. We model illumination and reflectance in log space by a generalized autoregressive process and Hidden Gaussian Markov random field, respectively.The model ability to d ...

13 Paper session #2: Audio-video array source separation for perceptual user interfaces
Kevin Wilson, Neal Checka, David Demirdjian, Trevor Darrell
November 2001 **Proceedings of the 2001 workshop on Percetive user interfaces**
Full text available: pdf(625.84 KB) Additional Information: full citation, abstract, references, index terms

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1 **Semi-blind closed-form co-channel signals separation method used in smart antenna systems**
Bofeng Jiang; Aigang Feng; Qinye Yin;
Microwave Conference, 2000 Asia-Pacific , 3-6 Dec. 2000
Pages:1572 - 1575

[Abstract] [PDF Full-Text (228 KB)] **IEEE CNF**

2 **Adaptive reduction of interfering speaker noise using the least mean squares algorithm**
Alexander, S.;
Acoustics, Speech, and Signal Processing, IEEE International Conference on ICASSP '85. , Volume: 10 , Apr 1985
Pages:728 - 731

[Abstract] [PDF Full-Text (59 KB)] **IEEE CNF**

Print Format

3 **Bootstrap: a fast blind adaptive signal separator**
Dinc, A.; Bar-Ness, Y.;
Acoustics, Speech, and Signal Processing, 1992. ICASSP-92., 1992 IEEE International Conference on , Volume: 2 , 23-26 March 1992
Pages:325 - 328 vol.2

[Abstract] [PDF Full-Text (232 KB)] **IEEE CNF**

4 **Signal separation in a symmetric adaptive noise canceler by output decorrelation**
Compernolle, D.V.; van Gerven, S.;
Acoustics, Speech, and Signal Processing, 1992. ICASSP-92., 1992 IEEE International Conference on , Volume: 4 , 23-26 March 1992
Pages:221 - 224 vol.4

[Abstract] [PDF Full-Text (264 KB)] **IEEE CNF**

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1 **The admittance of a parallel-plate waveguide aperture illuminating a metal sheet**
Jones, J.; Tsai, L.; Rudduck, R.; Swift, C.; Burnside, W.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 16 , Issue: 5 , Sep 1968
Pages:528 - 535

[Abstract] [PDF Full-Text (768 KB)] **IEEE JNL**

2 **Diffraction characteristics of a slit in a thick conducting screen**
Kashyap, S.; Hamid, M.;
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 19 , Issue: 4 , Jul 1971
Pages:499 - 507

[Abstract] [PDF Full-Text (808 KB)] **IEEE JNL**

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3 **Use of the Bubnov-Galerkin method to skin effect problems for the case of unknown boundary conditions**
Rolicz, P.;
Magnetics, IEEE Transactions on , Volume: 18 , Issue: 2 , Mar 1982
Pages:527 - 530

[Abstract] [PDF Full-Text (384 KB)] IEEE JNL

4 **A new computational approach for the linearized scalar potential formulation of the magnetostatic field problem**
Bramble, J.; Pasciak, J.;
Magnetics, IEEE Transactions on , Volume: 18 , Issue: 2 , Mar 1982
Pages:357 - 361

[Abstract] [PDF Full-Text (376 KB)] IEEE JNL

5 **Current distribution in conductors with arbitrary cross sections**
Hussein, A.; Biringer, P.;
Magnetics, IEEE Transactions on , Volume: 22 , Issue: 5 , Sep 1986
Pages:1263 - 1265

[Abstract] [PDF Full-Text (480 KB)] IEEE JNL

6 **Interactive search for the global maximum of a function of many variables**
Tsuda, T.;
Automatic Control, IEEE Transactions on , Volume: 22 , Issue: 3 , Jun 1977
Pages:399 - 405

[Abstract] [PDF Full-Text (928 KB)] IEEE JNL

7 **Random Signal Levels for Channel Access in Packet Broadcast Networks**
Lee, C.;
Selected Areas in Communications, IEEE Journal on , Volume: 5 , Issue: 6 , Jul 1987
Pages:1026 - 1034

[Abstract] [PDF Full-Text (824 KB)] IEEE JNL

8 **Joint source-channel coding and guessing with application to sequential decoding**
Arikan, E.; Merhav, N.;
Information Theory, IEEE Transactions on , Volume: 44 , Issue: 5 , Sept. 1998
Pages:1756 - 1769

[Abstract] [PDF Full-Text (836 KB)] **IEEE JNL**

9 **On the internal stability and asymptotic behavior of 2-D positive systems**
Valcher, M.E.;
Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also Circuits and Systems I: Regular Papers, IEEE Transactions on] , Volume: 44 , Issue: 7 , July 1997
Pages:602 - 613

[Abstract] [PDF Full-Text (596 KB)] **IEEE JNL**

10 **Performance of global load balancing by local adjustment**
Hajek, B.;
Information Theory, IEEE Transactions on , Volume: 36 , Issue: 6 , Nov. 1990
Pages:1398 - 1414

[Abstract] [PDF Full-Text (1316 KB)] **IEEE JNL**

11 **Equivalence of disturbance observer structures for linear systems**
Schrijver, E.; van Dijk, J.; Nijmeijer, H.;
Decision and Control, 2000. Proceedings of the 39th IEEE Conference on , Volume: 5 , 12-15 Dec. 2000
Pages:4518 - 4519 vol.5

[Abstract] [PDF Full-Text (164 KB)] **IEEE CNF**

12 **A histogram-based classifier on overlapped bins**
Kudo, M.; Imai, H.; Shimbo, M.;
Pattern Recognition, 2000. Proceedings. 15th International Conference on , Volume: 2 , 3-7 Sept 2000
Pages:29 - 33 vol.2